High-Level Comparison
H.323 and SIP

Functionality	H.323	SIP
Third Party Call Control	Yes	No
Capability Exchange	Yes & Better	Yes
Admission Control	Yes	No
Policy Control	Yes	No
Resource Reservation	Yes	No
Complexity	More	Less
Extensibility of Functionality	Vendor Specified	Yes, IANA
Ease of Customization	Harder	Easier
Version Compatibility	Yes	Unknown
PSTN Signaling Interoperability	Better	Worse
Protocol Encoding	Binary	Text

FIGURE 1

160

170

125

IWF

155

145

H.323
EP

DI   MEM

MSF   110

SIP
EP

150

100

FIGURE 2

160

170

H.323
EP

H.323
GK

IWF

MSF

SIP
EP

105   DI   MEM   115

150

125   200   100

FIGURE 3

160

125

| H.323 EP | | IWF | | SIP Server | | SIP EP |

MSF
110
DP
105   MSF 115
100

170

300

150

FIGURE 4

170

| H.323 EP | H.323 GK | IWF | SIP Server | SIP EP |

MSF
110
DP
105
100

125   200   115   300   150

160
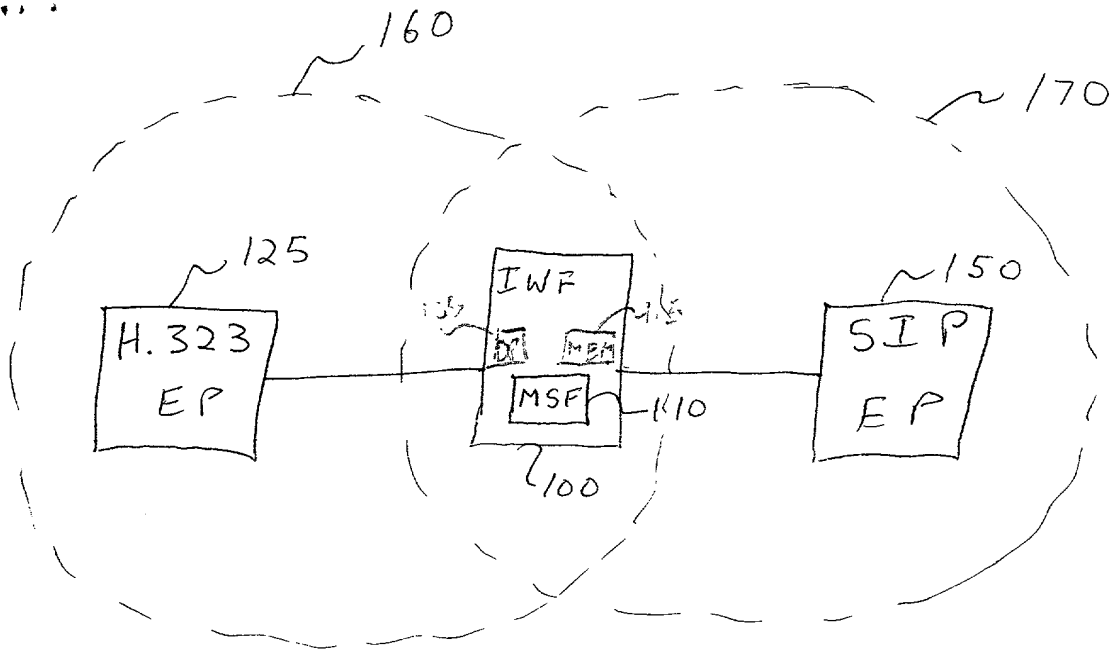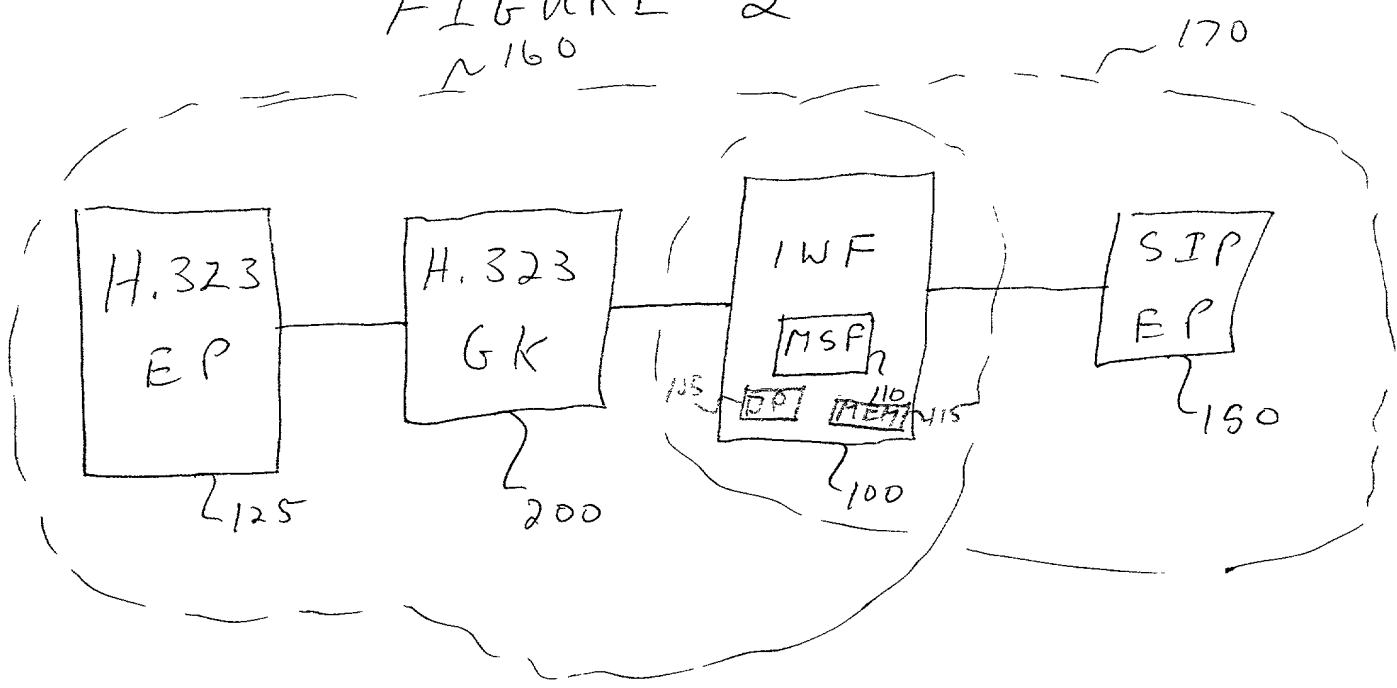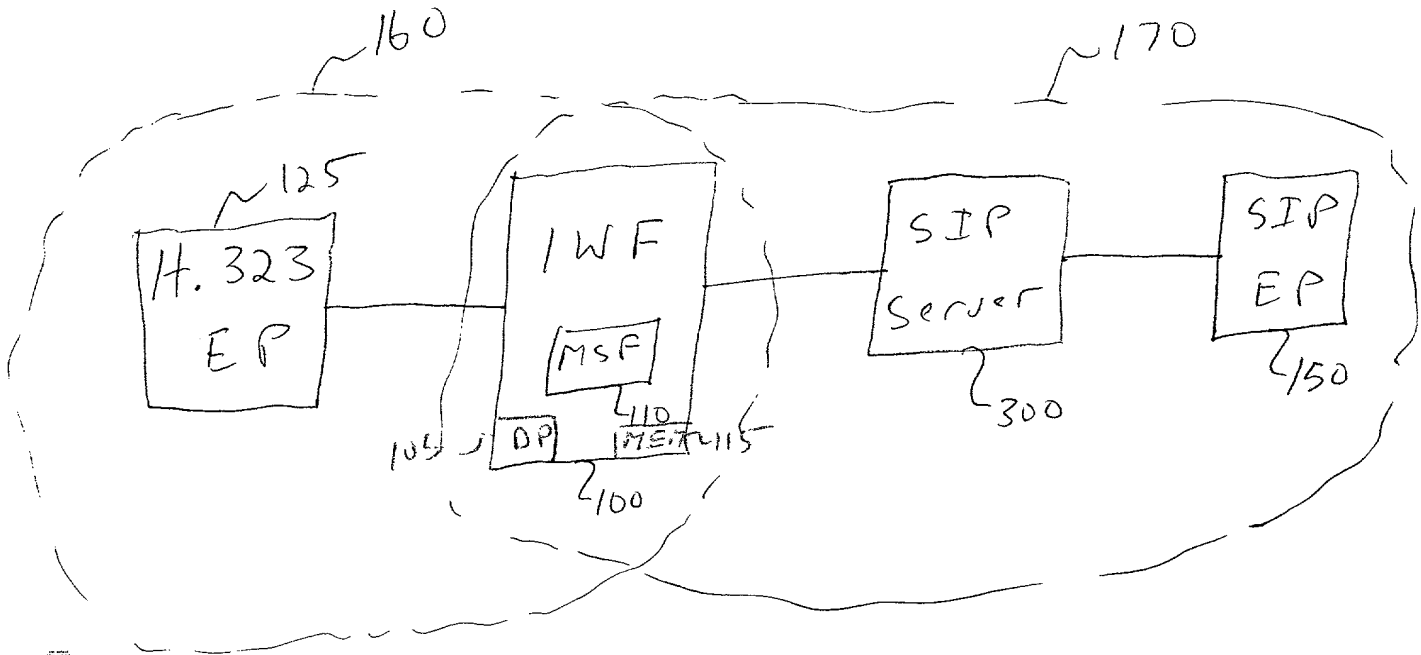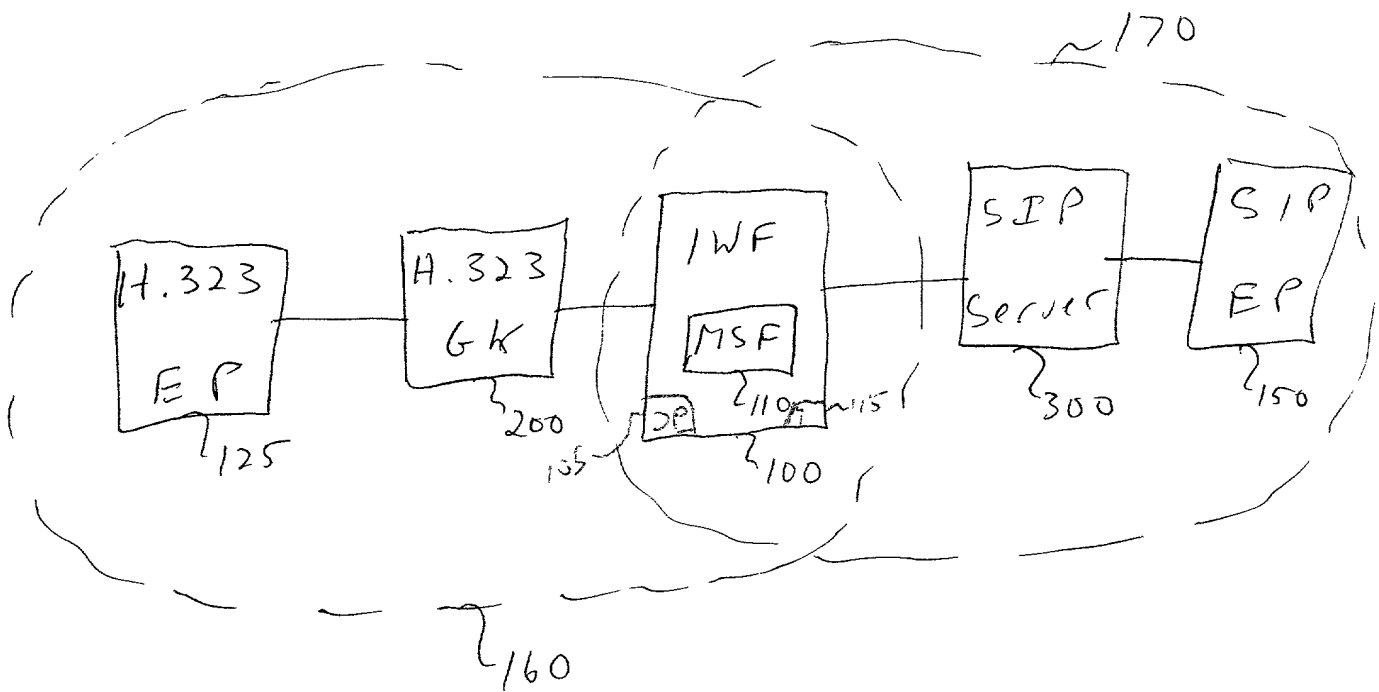
FIGURE 5

Simple call from H.323 terminal to SIP terminal using configuration of

FIGURE 2

```
H.323 ~125              ~100         SIP ~150
 EP    Setup     IWF                 EP
 |------------->|     INVITE    |
 |     ~610     |------~620---->|
 |              | 180 RINGING   |
 |   Alerting   |<-----~630-----|
 |<----~640-----|    200 OK     |
 |   Connect~660|<-----~650-----|
 |<-------------|               |
 |   H.245 670  |               |
 |<-------~----->|     ACK 680   |
 |              |------~----->|
 |         RTP    ~650    |
 |<---------------~--------->|
```
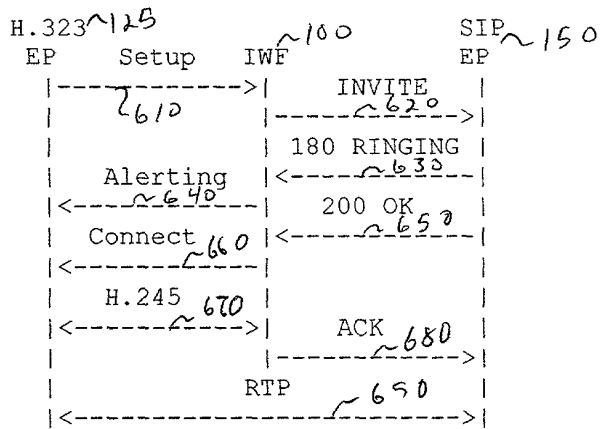
FIGURE 6

Simple call from SIP terminal to H.323 terminal using configuration of

FIGURE 2

```
           SIP ~150          IWF~100        H.323 ~125
            EP                               EP
             |                |              |
             |    INVITE      |              |
             |-----~710---->|   Setup 720    |
             |                |------~720--->|
             |                |  Alerting    |
             |                |<----~730-----|
             | 180 RINGING  |   Connect 750  |
             |<-----~740----|<----~----|
             |                |   H.245 760  |
             |   200 OK       |<----~----->|
             |<----~770-----|              |
             |   ACK 780      |              |
             |------~----->|              |
             |          RTP   ~790           |
             |<---------------~--------->|
```

FIGURE 7